

Technical Branch  
Inspection Group  
Mechanical Series

**PLUMBING INSPECTOR**

6/03 (AM)

***General Purpose***

Under general supervision, conduct field inspections of construction projects to enforce compliance with municipal, state and national plumbing and gas codes and regulations, and adherence to City approved plans, specifications and standards.

***Typical Duties***

Examine new or existing plumbing and gas systems of residential, commercial or industrial buildings or facilities, including those having fire, flood or other major damage, prior to, during various phases and at completion of installation, repair or modification to ensure that trades work and materials conform to prescribed quality and safety standards. Involves: Schedule inspections, and investigate or refer complaints to supervisor as instructed. Verify that contractors are licensed and possess required permits, issuing them as authorized if necessary. Review design drawings and specifications for acceptability of lay-outs, materials and equipment to be used. Visually check that water, wastewater and drainage, and liquefied petroleum or compressed or natural gas storage and distribution project components including, but not limited to, water, air, liquefied gas, septic, settling and neutralizing tanks, pressure vessels, wells, sewers, cesspools, floor drains, sand traps, seepage pits or other containers, above and below ground mains, pipe grades, air and gas tubing, fire or irrigation sprinklers, water heaters, steam vaporizers, exhaust and grease removal equipment, regulators, meters, gauges, relief valves, back flow prevention devices, power source connections, bracing, fastenings, welds, fittings, ventilation, and support accessories adequately meet legally mandated technical requirements. Observe functioning of installed equipment or systems for indicators of faulty or unsafe operation such as leaks, pitting, corrosion or cracking. Measure reference points with consideration of soil type for fill conditions and water table level, as necessary, for placement of components, pipe sizes, and maintenance accessibility. Test for acidity, alkalinity, pollutants or explosive gases and system instruments calibration as required. Calculate factors such as water or gas flow, level, pressure and temperature requirements and limits using established formulas and comparing results to standards references. Monitor on-site conditions and work in progress for suitability of construction trades practices. Confer or correspond with property owners or contractors and their trades workers to notify them of procedural, materials or equipment code violations or deviations from approved plans as well as informing them of allied property maintenance, grading, zoning or hazards noncompliance, to interpret and explain current and revised building codes or department rules and regulations, and to suggest corrective measures and time limits. Take remedial actions, prepare and issue citations and work stoppages, and report on uncorrected violations for use by administrative or judicial authorities. Obtain evidence of failure to comply such as by sketching location and features of deviations, collecting samples of unapproved materials for laboratory testing and searching inspection records, and testifying in court.

Perform related incidental duties contributing to the realization of unit or team objectives as required. Includes: Maintain awareness of changes in plumbing trades technology and codes. Substitute for supervisor or coworkers as qualified and within authorized limits by carrying out specified functions to maintain continuity of ordinary operations, if delegated. Provide designated support for projects or activities overseen by higher graded non-supervisory personnel as instructed. Explain and demonstrate work performed to assist supervisor in orienting and training less knowledgeable employees. Engage in assignments pertaining to functions of other positions for training purposes under close supervision. Log activities, and prepare and submit recurring or special status reports. Keep tools, equipment and work area orderly, safe and clean.

**Knowledge, Abilities and Skills**

- Good knowledge of plumbing and water, sewage or gas storage and distribution principles.
- Good knowledge of plumbing and gas codes and related regulations.
- Good knowledge of methods, materials and techniques of the plumbing trade.
- Good knowledge of plumbing and gas installation and equipment defects and hazards.
- Ability to read and analyze plumbing trades technical procedures or governmental regulations, and interpret various instructions in written, oral, diagram, or schedule form.
- Ability to solve practical problems that deal with an assortment of concrete variables in situations where only limited standardization exists to detect defects or hazards related to water supply, wastewater and gas service installation or equipment, or trades work deviations from approved construction plans, and their causes.

- Ability to apply mathematical concepts such as fundamentals of plane and solid geometry and trigonometry together with fractions, percentages, ratios, and proportions to practical situations.
- Ability to express oneself clearly and concisely, orally and in writing, to firmly, tactfully and objectively interpret and enforce building code requirements, and prepare inspection reports or business correspondence and maintain related records.
- Ability to establish and maintain effective working relationships with fellow employees, contractors, property owners, officials and the public.
- Skill in safe operation and care of measuring instruments and tools common to plumbing trades inspection.
- Skill in the safe operation and care of a motor vehicle.

***Other job Characteristics***

- Frequent moving over uneven construction site terrain which includes climbing stairs and ladders.
- Frequent exposure to varying weather conditions.
- Occasional driving through city traffic.

***Minimum Qualifications***

Training and Experience: Equivalent to a combination a high school diploma or General Education Development (GED) equivalent and completion of Journeyman Plumbing Training, plus two (2) years journey level experience in various phases of general water, sewage or gas systems installation or modification.

Licenses and Certificates: International Code Council Commercial Plumbing Inspector certification, plus Plumbing Inspector License from the State Plumbing Board within six (6) months of appointment. Texas Class "C" Driver's License or equivalent from another state.

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Human Resources Director

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Department Head